



2006 Kentucky Homeland Security and Local Government Conference

Statewide Wireless Mobility Project

April 5, 2006





Objectives

- Overview of KyOPS
- Statewide Wireless Infrastructure
- Bio-Key Mobile Cop Software



Kentucky Open Portal Solution



Fostering Coordination, Cooperation and Partnership

April 2006

Kentucky State Police



Why KyOPS?

- Make Data Collection Easier
 - Result in more data
- Built-in Edits for Quality Data
 - Result in Consistently Reliable data
- Automated Process
 - Results in faster data availability
- Statewide scope
 - Results in comprehensive data



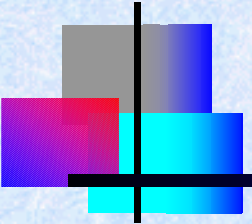
What is KyOPS?

- **E-CRASH** *Collision reporting*
- **E-Citation** *Criminal and Traffic Citations*
- **E-NIBRS** *National Incident Based Reporting*
- **E-Intelligence** *Field Intelligence reporting*
- **E-Courtesy Notice** *Traffic Warnings*
- **E-Scan** *2D Barcodes*
- **Professional Stop** *Demographic Information*
- **Master Name Index across databases**



Agencies Involved in Development of KyOPS

- Kentucky State Police
- Kentucky Transportation Cabinet
- Lexington-Fayette Urban County Police
- Louisville Metro Police
- UK Transportation Center
- Kentucky Injury Prevention & Research Center
- Federal Highway Administration
- Governor's Office For Technology
- Administrative Office of the Courts
- Many local law enforcement agencies

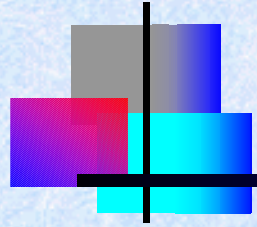


KY Agencies Using E-NIBRS

Reports From Jan 1 to Mar 29, 2006

- Anderson County SO 56
- Erlanger PD 269
- Franklin County SO 54
- Ft. Thomas PD 167
- Georgetown PD 545
- Harrison County SO 35
- Lawrenceburg PD 99

- Mason County SO 37
- Maysville PD 311
- Morehead PD 88
- Pikeville PD 185
- Versailles PD 399
- U of Kentucky Police 368
- Warren County SO 231



Characteristics of KyOPS

- The Wizard-based E-CRASH Application has served as the model for all subsequent KyOPS programs.
- Electronic collision and crime data is placed into the system within one (1) hour of submission.
- Citations are submitted directly to the Court System within 20 minutes
- Submit reports wirelessly, via phone line, or upload to FTP server.
- The KyOPS application eliminates the UOR processing requirements for the KSP data entry staff.



Characteristics of KyOPS

- **Supervisor review** process allowing agencies to review, approve or disapprove all reports prior to entry into the main database.
- The **reject process** returns rejected reports to the officers with a note with needed corrections.
- **Automatic** software and table data **updates** when connection is made. (e.g. violation codes, descriptions)
- KyOPS improves **officer safety** by significantly reducing the amount of time required to complete Collision, Crime, or Citation Reports.



Benefits to Using KyOPS

- Standardized/Uniform data collection
- High quality of data
- Better analysis of data - Web Portal
- Timeliness of data
- Total access to statewide data
- Cost effective for agencies:
 - Free software*
 - Free software maintenance*
 - Free training*
 - Free Help Desk Support*



KyOPS Web Portal

- **Simple Document Search**: Authorized users can search for imaged Collision, Crime, and Citations documents. After retrieving the documents, the user can view or print the documents.
- **Advanced Data Query**: Allows authorized users to perform complex queries to retrieve collisions that satisfy the search criteria. An example includes:
 - Collisions from 01/01/2004 to 12/31/2004
 - Agency ORI includes all 16 KSP Post
 - Number Killed in the Collision is Greater than 0
 - Roadway Number is Interstate 71
 - Roadway Condition Code is Wet

KSP Web Portal: Simple Document Query

Search - Kentucky State Police

Address: <http://kycrash.state.ky.us/WebPortal/VCRS/Search.aspx>

KyOPS
Home | Links | Manuals | Roles and Responsibilities | FAQ | Help
Kentucky's Open Portal Solution

SYSTEM ADMINISTRATOR

Logoff
Report Type: Collision
find a document
collision data
reports & extracts

Page Note
Enter the Master Record Number, Local Code, or a combination of the collision date with Individual or Location information.

Did You Know?
Approximately 1.4 million drivers were arrested nationally in 2001 for driving under the influence of alcohol or narcotics.

Collision Information
Master File Nbr:
Local Code:
Date of Collision: 01/01/2004 to 01/30/2004 (MM/DD/YYYY)

Individual Information
Last Name: First Name: License Plate Number:

Location of Collision
Roadway Name: County: Agency:

KyOPS Results - Kentucky State Police

	MASTER FILE NUMBER	AGENCY ORI	LOCAL CODE	COLLISION STATUS CODE	COLLISION DATE	COLLISION COUNTY	ROADWAY NUM
View	00158976	0568000	0402001933	AC	1/16/2004	056	I 0064
View	00279367	0370200	A0401037	AC	1/25/2004	106	I 0064
View	00280823	0370200	A0401028	AC	1/20/2004	103	I 0064
View	00281081	0370200	A0401025	AC	1/20/2004	025	I 0064
View	00281100	0370200	A0401006	AC	1/8/2004	025	I 0064
View	00417437	KSP0800		AC	1/12/2004	006	I 0064
View	00439745	0340200	2004016175	AC	1/26/2004	034	I 0064
View	00547613	KSP0800		AC	1/9/2004	006	I 0064
View	00554284	0250000	006104	AC	1/16/2004	025	I 0064
View	00557458	0060000		AC	1/25/2004	006	I 0064
View	00574221	0060000		AC	1/25/2004	006	I 0064

KyOPS News
KSP Promotions Ceremony to be held 1:00 on June 8th
New KSP Arson Investigator
More...

Site Tip
Click the Contact Us link to access names with emails and phone numbers for VCRS related staff.

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KSP Web Portal: Query Result

Collision reports, UORs, Citations

KyOPS Viewer - Kentucky State Police

Master File Number=00554284, Local Code=006104 (1 document)

COLLISIONRP(2/12/2004)

KENTUCKY UNIFORM POLICE TRAFFIC COLLISION REPORT

INVESTIGATING AGENCY: CLARK COUNTY SHERIFF AGENCY OR NUMBER: 0250000 LOCAL CODE: 0061-04

ROADWAY NAME: INTERSTATE 64 PARKING LOT: ☐ INTERSECTION WITH: ☐ BETWEEN STREETS: ☐

ROADWAY # I-64 MILES FROM CITY 2.5 CITY/TOWN: LOUISIANA

INJURED: 99 KILLED: 00 COLLISION DATE: 01/11/04 COLLISION TIME: 01:12

LOCATION 1ST EVENT: CHANGING LANE LOCATION 2ND EVENT: CHANGING LANE

TRAFFIC CONTROL: NO PASSING ZONE ROADWAY SURFACE: ASPHALT ROADWAY CONDITION: WET

WEATHER: WET LIGHT CONDITION: DAYLIGHT LAND USE: RESIDENTIAL

INJURED OR DECEASED REMOVED BY: PRIVATE VEHICLE

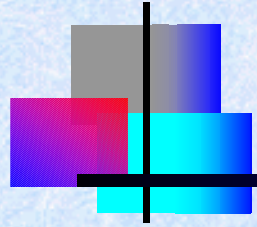
DESCRIPTION OF COLLISION: UNIT 1 WAS TRAVELING WEST BOUND ON I-64 WHEN SHE DROPPED OFF THE LEFT SHOULDER OF THE ROADWAY AND THEN OVER CORRECTED, CAUSING HER VEHICLE TO OVER TURN.

INVESTIGATOR: CLARK BEAT OR POST NO: 0121 TIME NOTIFIED: 0126 REVIEWED BY: BT PAGE OF PAGES: 1/1

MASTER FILE #: 00554284

KSP 74 Revised 1/2000

April 2006



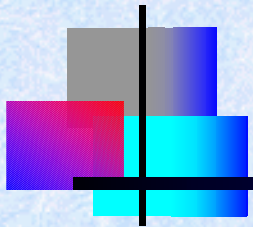
The Future for KyOPS

KyOPS Programs under development:

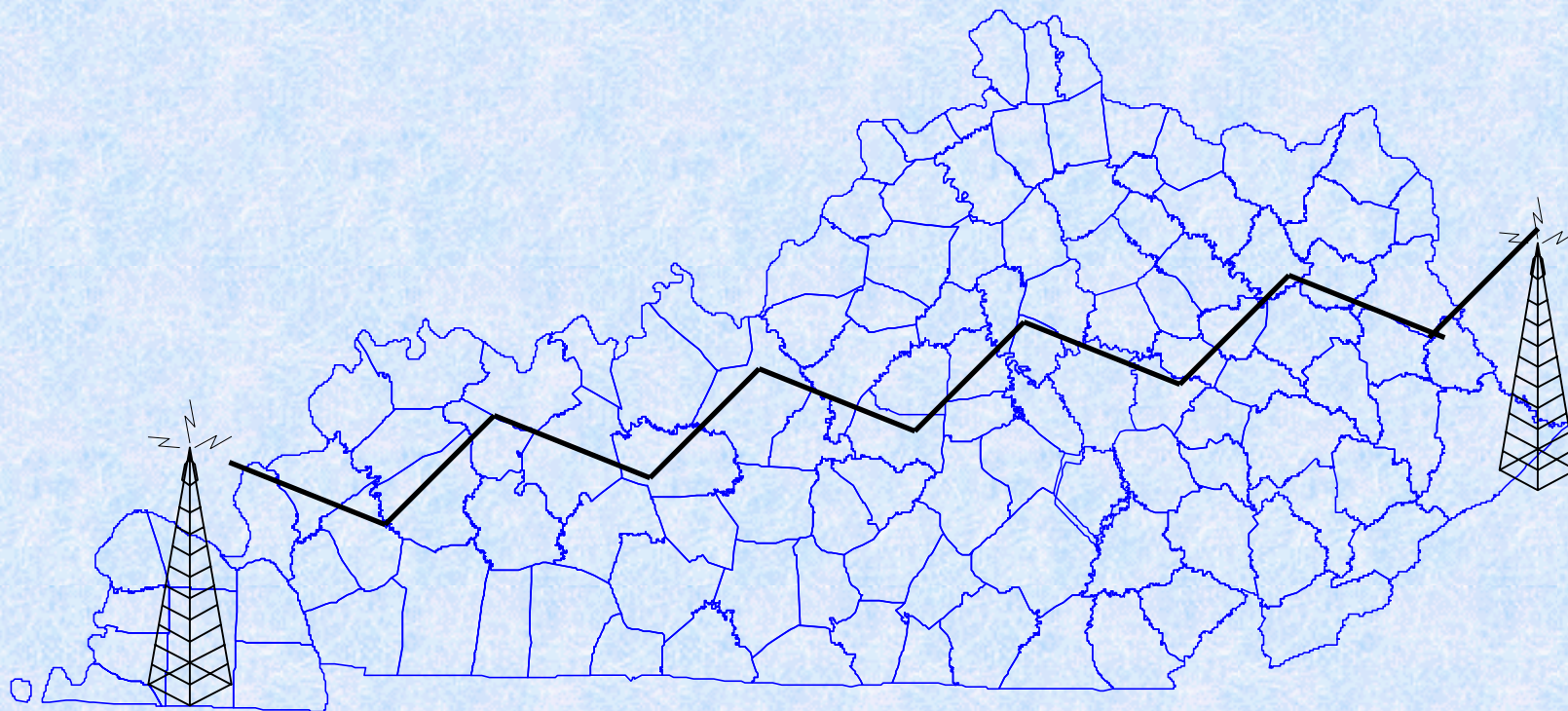
- **Integration into Home Land Security Fusion Center**

Future Planned Programs:

- **Instant messaging**
- **Direct connections with NCIC and LINK**
- **Direct connections with AOC for disposition data**



800 Mhz Wireless Data Project



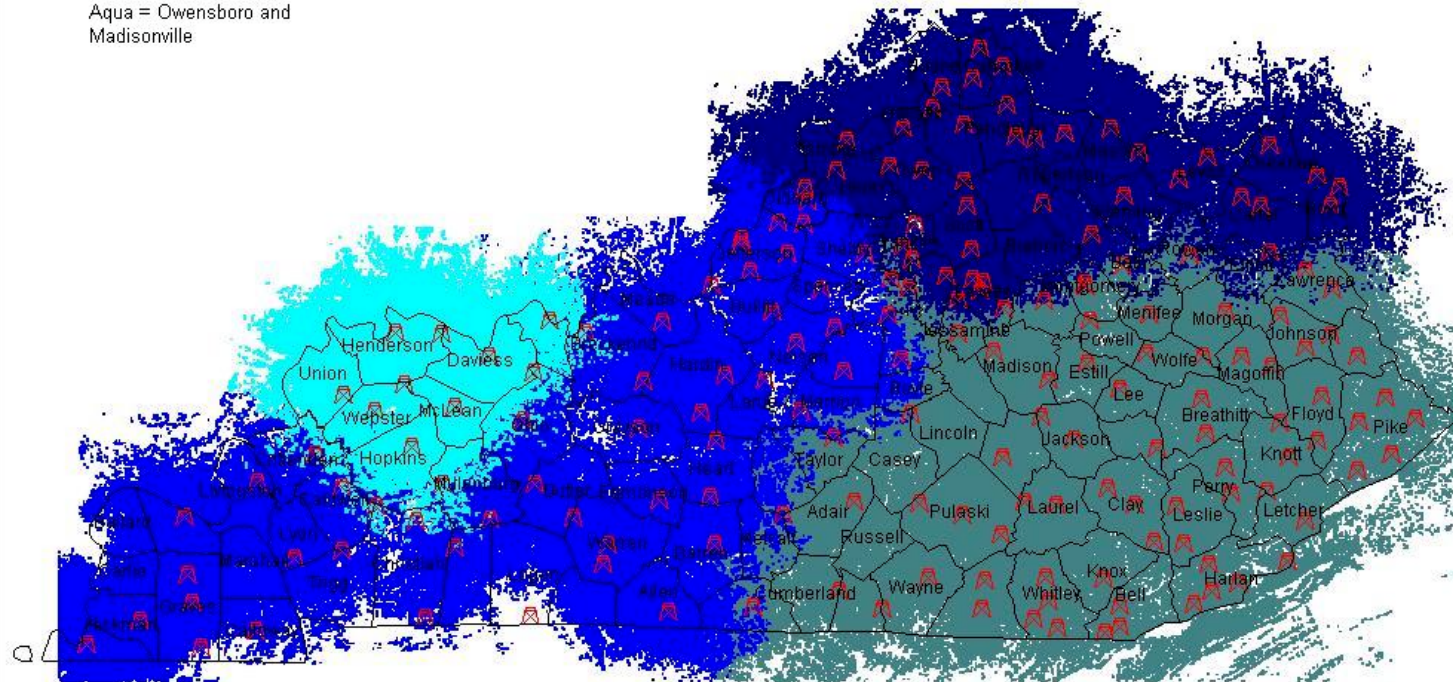
Interagency Communication and Coordination

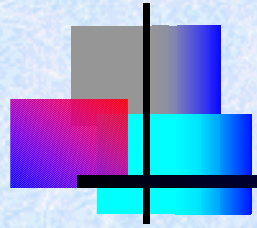
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800Mhz Coverage

Teal = CRD
Dark Blue = KSP
Light Blue = KSP
Aqua = Owensboro and
Madisonville





Typical KEWS Tower



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Typical Base Station

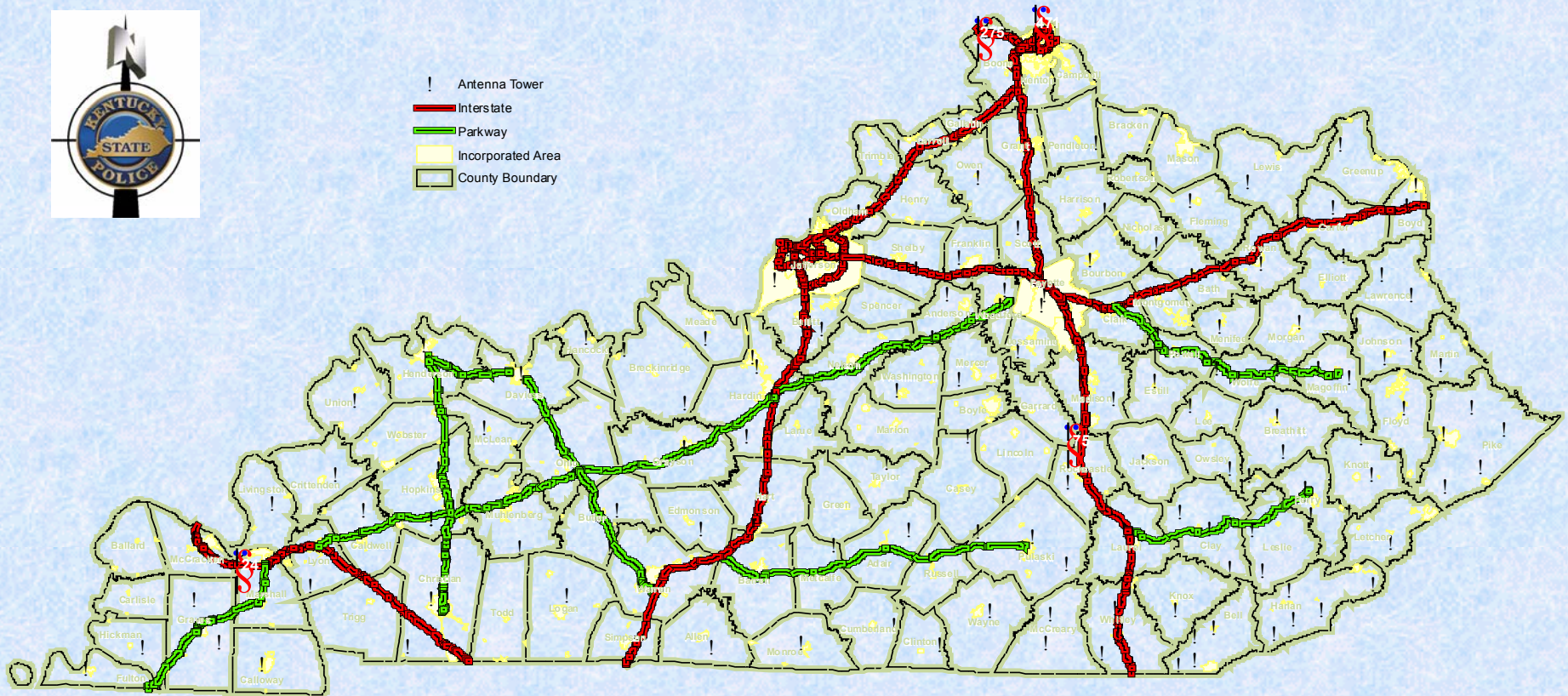


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Kentucky Wireless Data Communication Infrastructure

Antenna Tower Locations



Basemap data sources:

Roads - Kentucky Transportation Cabinet

County and Incorporated City Boundaries - Kentucky Infrastructure Authority

Kentucky State Police

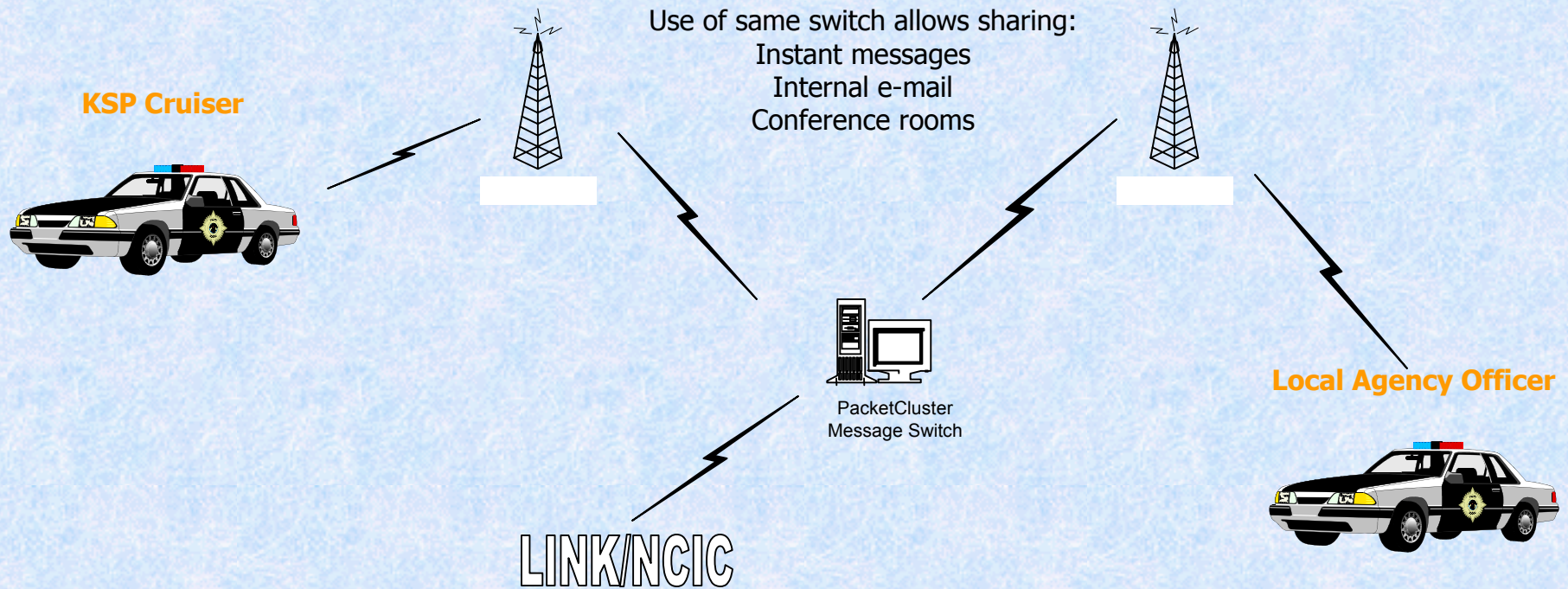
Kentucky State Police
Criminal Identification and Records Branch
GIS Section

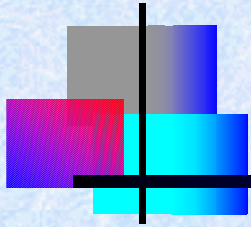
Frankfort, KY 40601

August, 2005

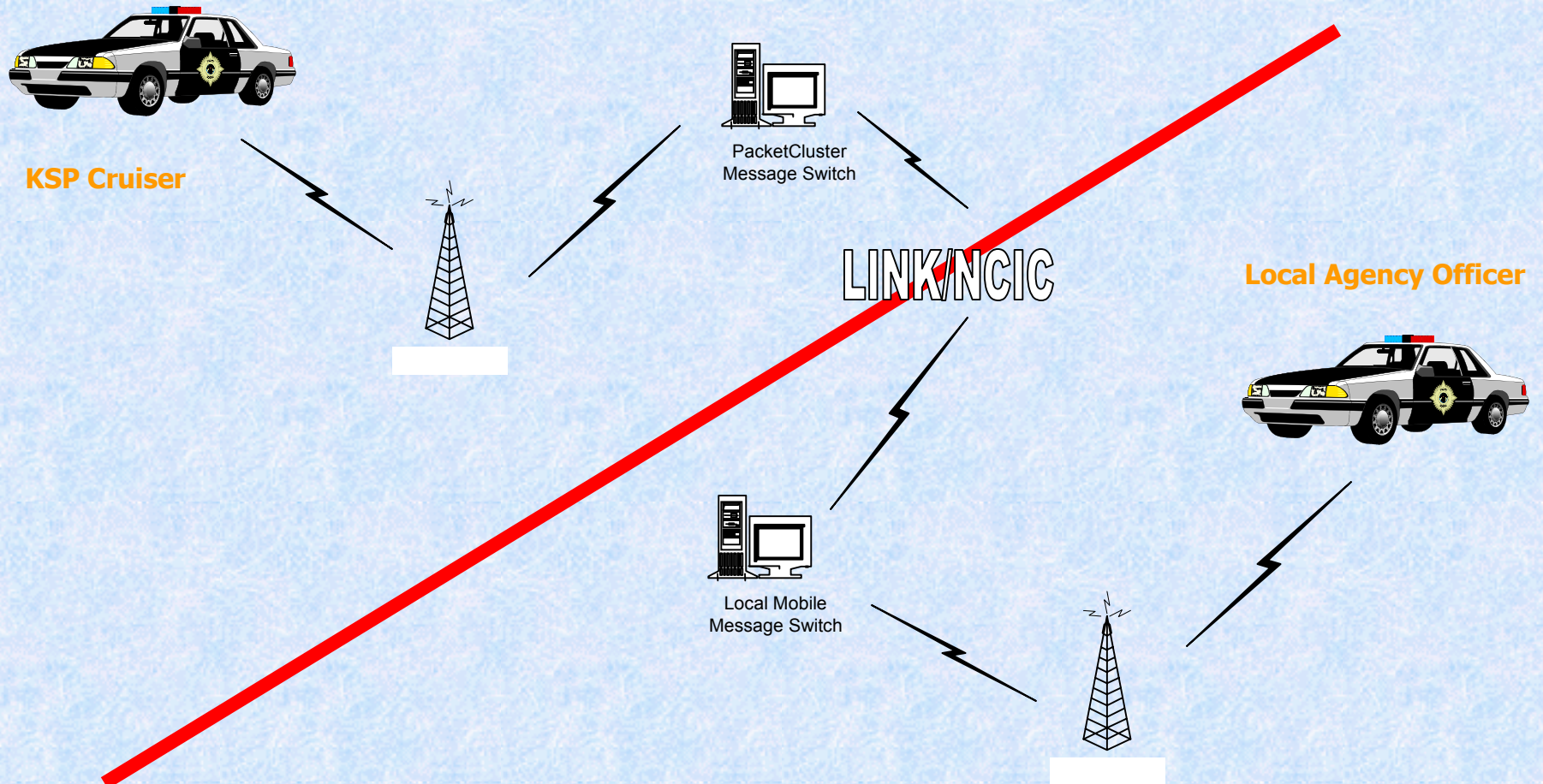


Mobile Connectivity - Sharing a PacketCluster Mobile Switch



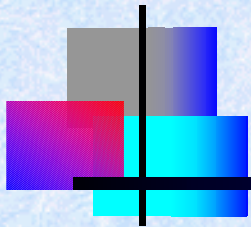


Mobile Connectivity - Separate Mobile Systems



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MobileCop Software



PacketCluster Patrol - [Status]

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info CCISurr

Command:

← Tool Bar
← Command Line

UnitID	Officer(s)	Time	Status
P10SP2531KSP	marcuswilliams	1000	Available
KSP1		1000	Available
KSPTEST	TEST	1000	Available
P092154KSP	johnnymslone	1000	Available
P092706KSP	scotthazlette	1000	Available
P092835KSP	jimmynolte	1000	Available
P10SP2582KSP	ryansizemore	1000	Available
p11SP2778KSP	millardroot	1000	Available

Status Window



The **DyNt (Day/Night)** button toggles the PacketCluster Patrol interface between day (default) and night operating modes.

PacketCluster Patrol - [Status]

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annnc Disp NCIC Sumr Form Info CCISurr LGN2 Pswd

10 25 33 Command: []

UnitID	Officer(s)	Time	Status
DISP	disp	1047	Available
C4	sohler	1047	Available

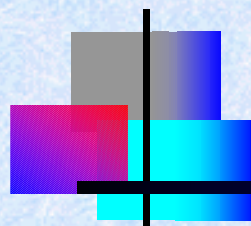
PacketCluster Patrol - [Status]

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annnc Disp NCIC Sumr Form Info CCISurr LGN2 Pswd

10 25 33 Command: []

UnitID	Officer(s)	Time	Status
DISP	disp	1047	Available
C4	sohler	1047	Available




Communication Type	Who Sees the Communication?	When?	Privacy
Announcement	Everyone who is logged on, or any members of a distribution list who are logged on.	Immediate	Public
Mail message	One recipient, several recipients, or a distribution list.	When they check their new mail.	Public or private.
Talk message	One or more users who are logged on.	Immediate	Private
Conference message	Several people who are logged on.	Immediate	Private to members.

Communicating Car to Car

- Using the Status Window
- Double Click on a specific unit
- This will open the talk Window
- Enter Your Message

UnitID	Officer(s)	Time	Status
P10SP2531KSP	marcuswilliams	1034	Available
KSP1		1034	Available
KSPTEST	TEST	1034	Available
P092154KSP	johnnymylone	1034	Available
P092706KSP	scotthazlette	1034	Available
P092835KSP	jimmynolte	1034	Available
p11SP2778KSP	millardroot	1034	Available
P132680KSP	dannylclark	1034	Available

 Talk

Send To:

C74/0046

☐ Sort by name

Message:
<< Use the Send to Option to pick from a list of the Units logged on. Use Alarm Option to draw attention to a Talk Message. >>

☐ Alarm



Conference Mode

0033: Did you receive the last county alarm
0046: Yes I did
0046: Did you get the registration I did not copy that part
0033: Nissan Maxima NJ JSG98Y
0046: Received now I have everything
0033: Do you think they might try to head up Main Street towards the center of town
0046: I am allready at that location just in case
0033: Received I will start heading that way just in case
0033: NCIC:
MKE/STOLEN VEHICLE
ORI/NJNSP2900 LIC/ABC123
LIS/NJ LIY/00 LIT/PC VIN/1G4AM47A9BG152699 VYR/81 VMA/BUIC
VMO/REG VST/2D VCO/GRN DOT/092593 OCA/93480 NIC/N772267800 ORI IS SP RED LION NJ IMMED CONFIRM RECORD WITH ORI
0033: The above look up was the plate that I just ran I pasted it into the conference

- Type your Message
 - Press Enter or Click On Send
- Select “Exit Conference” - To Exit

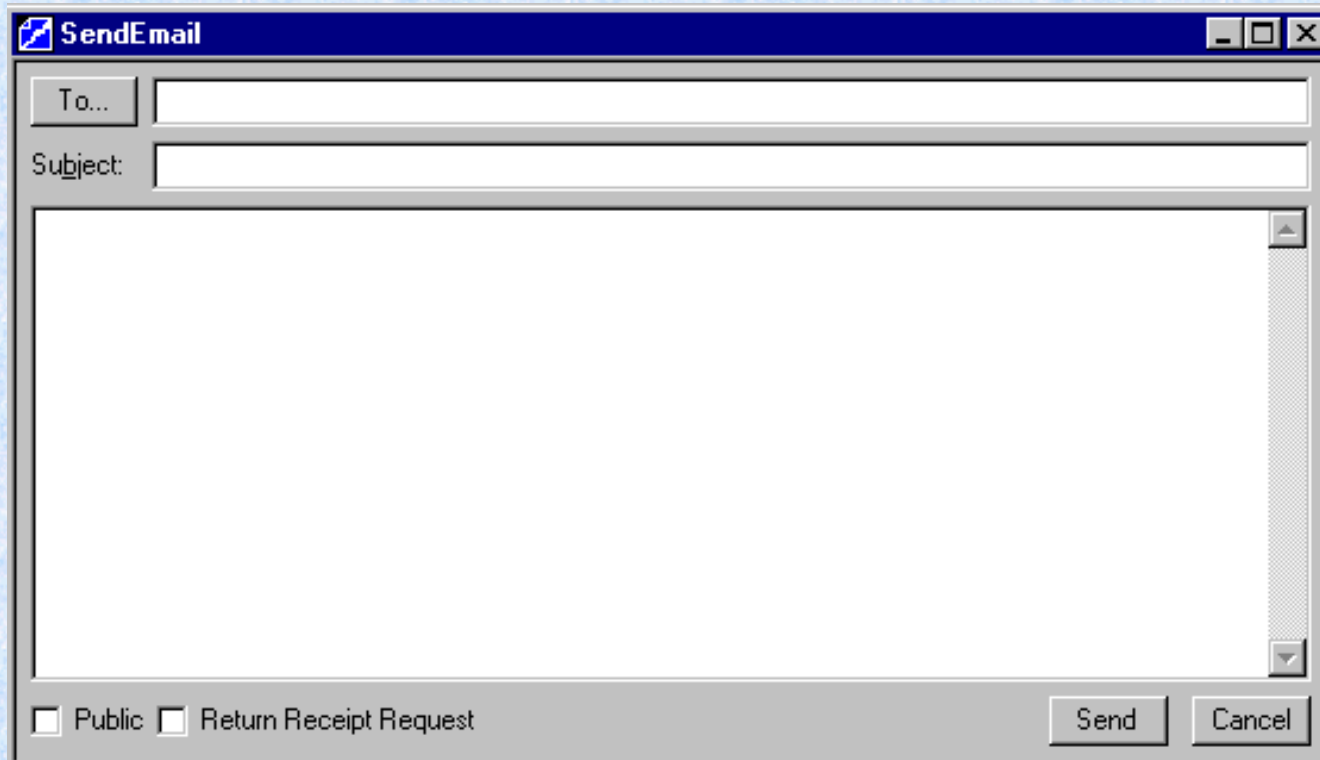
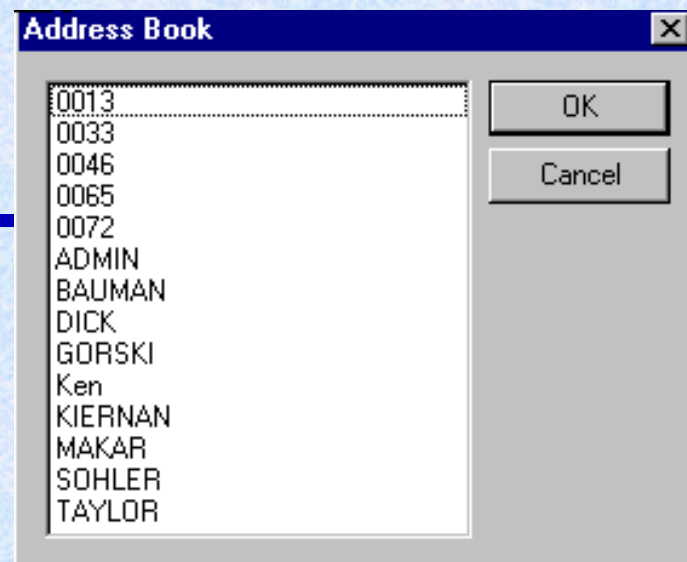
0046: Entering the conference
Leaving the conference

Send

Exit Conference

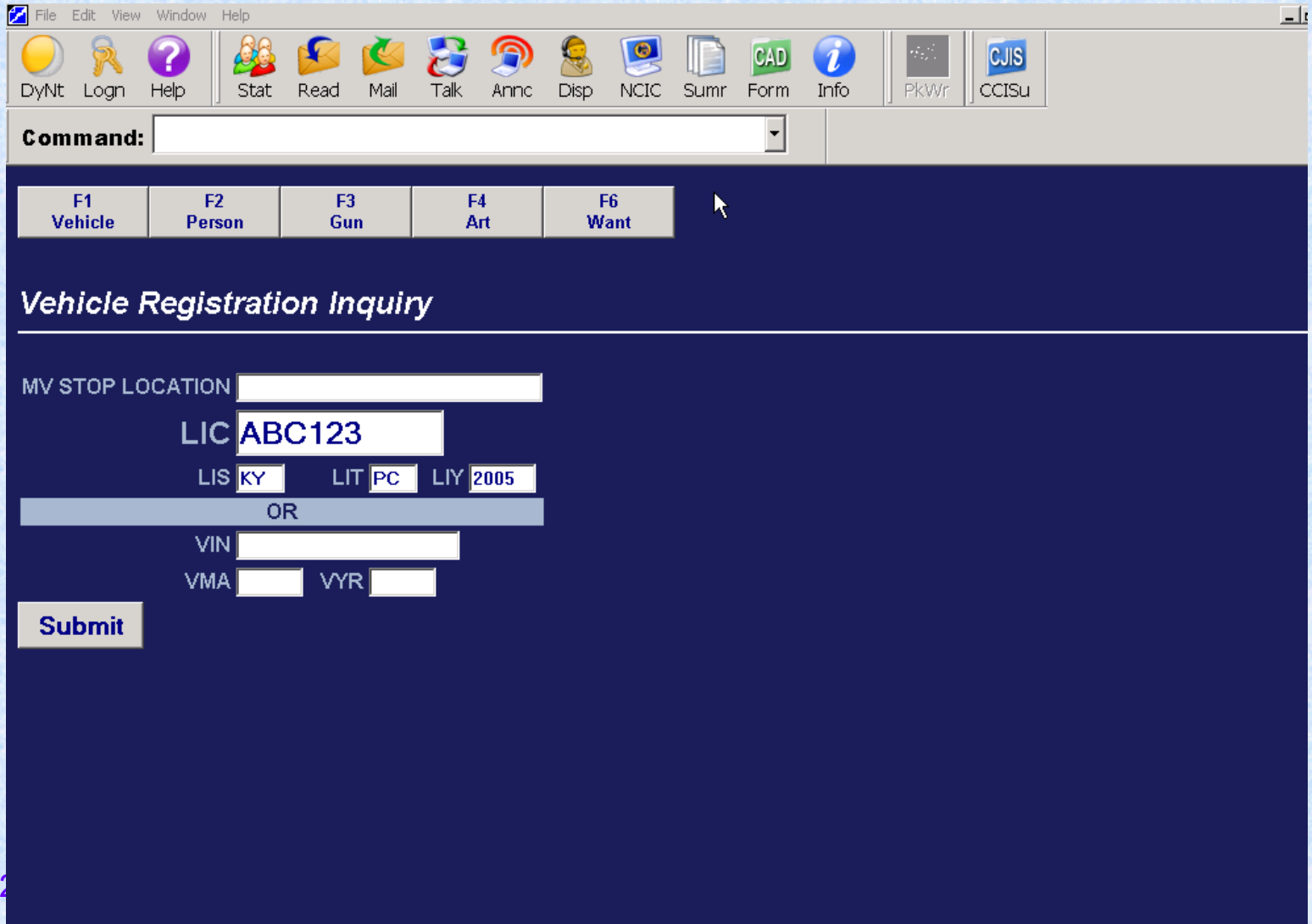
Mail

- Fill in the fields.
- Check Return Receipt Requested
- Or Public
 - If Desired.



NCIC Inquiry Screens

Initial Screen is Vehicle Check



The image shows a screenshot of the NCIC Inquiry Screens initial screen, which is a vehicle check. The screen has a dark blue background with a light blue header bar. The header bar contains a menu bar with File, Edit, View, Window, and Help. Below the menu bar is a toolbar with icons for DyNt, Logn, Help, Stat, Read, Mail, Talk, Annc, Disp, NCIC, Sumr, Form, Info, PkWr, and CCISu. Below the toolbar is a Command: field. Below the Command: field is a row of function keys: F1 Vehicle, F2 Person, F3 Gun, F4 Art, and F6 Want. Below the function keys is the title "Vehicle Registration Inquiry". Below the title are several input fields: MV STOP LOCATION, LIC ABC123, LIS KY, LIT PC, LIY 2005, OR, VIN, VMA, and VYR. Below the input fields is a Submit button.

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info PkWr CCISu

Command:

F1 Vehicle F2 Person F3 Gun F4 Art F6 Want

Vehicle Registration Inquiry

MV STOP LOCATION

LIC **ABC123**

LIS **KY** LIT **PC** LIY **2005**

OR

VIN

VMA VYR

Submit

NCIC Results Screen

The screenshot displays the NCIC Results Screen. The left pane shows a list of inquiry results for two vehicles. The right pane displays detailed information for the selected vehicle, including registration and owner license details.

Command: [Dropdown menu]

Left Pane (Inquiry Results):

- LIS/KY.LIY/2005.LIC/ABC123.L
 - CCDW - DMV: NAME:DUNAWAY
 - NCIC - INFO: NAME:DONNA
 - STATE - DMV: NAME:DUNAWAY
 - OLN - DMV: NAME:DONNA
 - AVIS - DMV: PLATE:ABC123
 - NCIC - INFO: PLATE:ABC123
 - STATE - DMV: PLATE:ABC123
- LIS/KY.LIY/2005.LIC/219BMM.L
 - CCDW - DMV: NAME:RUCKENSTEIN
 - STATE - DMV: NAME:RUCKENSTEIN
 - NCIC - INFO: NAME:ROBERT
 - OLN - DMV: NAME:ROBERT
 - NCIC - INFO: NAME:ROBERT
 - STATE - DMV: NAME:XXXX
 - STATE - DMV: NAME:XXXX
 - AVIS - DMV: PLATE:219BMM
 - NCIC - INFO: PLATE:19BMM
 - STATE - DMV: PLATE:19BMM
 - NCIC - INFO: PLATE:219BMM
 - STATE - DMV: PLATE:219BMM

Right Pane (Details):

NCIC PERSON	NCIC VEHICLE	AVIS REG. EXP.	DMV LICENSE
NO NCIC WANT	NO RECORD	20051231	IN FORCE

KYSP PERSON	KYSP VEHICLE	CCDW STATUS
NO KYSP RECORD	NO KYSP VEHICLE RECORD	NO RECORD FOUND

VEHICLE REGISTRATION INFO:

Plate: ABC123 **State:** KY **Year:** 03

Owner 1: DUNAWAY DONNA S **Exp:** 20051231

Owner 2: **VIN:** 1J4HR58225C613720

Address: PO BOX 232

City: VANCEBURG, KY, 41179

Year: 2005 **Make:** JEEP **Style:** 4D **Color:** BLK

OWNER LICENSE INFO:

Name: DONNA DUNAWAY **Status:** IN FORCE **Expires:** 20060425

Address: SOUTHERN MANOR BOX 232 **OLN:** D84865715 **DOB:** 19 0325

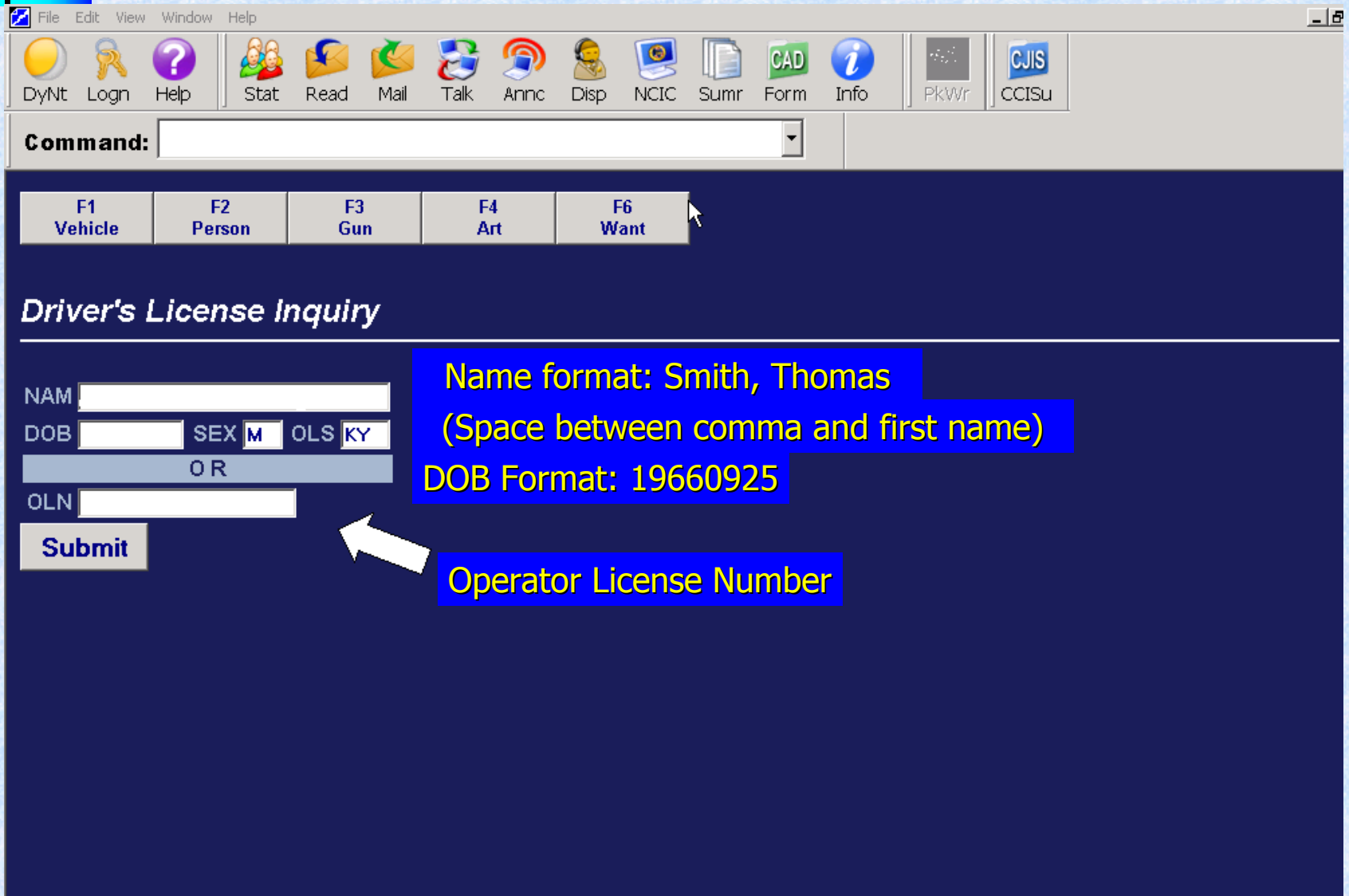
City: VANCEBURG, KY, 41179 **SSN:** 26370

Height: 504 **Sex:** F **Class:** D=OPERATORS

Weight: 125 **Eyes:** BLU **Restrictions:** NONE

Right side of screen is formatted with most-used information.
Left side of screen has all inquiry results. When clicked, the details display on right side.

NCIC Inquiry Screens Person



The image shows a screenshot of the NCIC Inquiry Screens Person interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'Window', and 'Help'. Below the menu bar is a toolbar with various icons: DyNt, Logn, Help, Stat, Read, Mail, Talk, Annc, Disp, NCIC, Sumr, Form, Info, PkWr, and CCISu. A 'Command:' dropdown menu is located below the toolbar. Below the command menu is a row of function keys: F1 Vehicle, F2 Person, F3 Gun, F4 Art, and F6 Want. The main area is titled 'Driver's License Inquiry'. It contains several input fields: 'NAM' (Name), 'DOB' (Date of Birth), 'SEX' (Sex), 'OLS' (Operator License State), 'OR' (Operator License Number), and 'OLN' (Operator License Number). A 'Submit' button is located at the bottom left. A white arrow points from the 'Operator License Number' text to the 'OLN' input field.

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info PkWr CCISu

Command:

F1 Vehicle F2 Person F3 Gun F4 Art F6 Want

Driver's License Inquiry

NAM

DOB SEX OLS

OLN

Submit

Name format: Smith, Thomas
(Space between comma and first name)
DOB Format: 19660925

Operator License Number

NCIC Inquiry Screens Gun

File Edit View Window Help

DyNt Login Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info PkWr CCISu

Command:

F1 Vehicle F2 Person F3 Gun F4 Art F6 Want

Gun Inquiry

SER

ADDITIONAL INFORMATION

CAL

MAK

Submit

NCIC Inquiry Screens

Articles

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info PkWr CCISu

Command:

F1 Vehicle F2 Person F3 Gun F4 Art F6 Want

Article Inquiry

SER

TYP YTHING

Submit

NCIC Inquiry Screens Wanted

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info PkWr CCISu

Command:

F1 Vehicle F2 Person F3 Gun F4 Art F6 Want

Wanted Person Inquiry

NAM

DOB RAC SEX

Submit

Name format: Smith, Thomas
(Space between comma and first name)

DOB Format: 19660925

Silent Dispatch Screen

File Edit View Window Help

DyNt Logn Help Stat Read Mail Talk Annc Disp NCIC Sumr Form Info PkWr CCISU

Command: []

Time	Source	Title	Summary
16:11:04	Updated	CRD-Taylor Cad Call Form - Form 2	2005-16320 DETAIL 20051107 1 11 STATE POLICE RD KSP L
16:03:55	Received	CRD-Taylor Results Form - Form 1	Active: 2005031611Address: 263 APPLE COURT Apt: ...

CRD-Taylor Cad Call Form

Event: 2005-163 Date: DETAIL Zone: 20051107 Prio: Inc #: 1

Address: Loc: 11 STATE POLICE Disp CAD EVENT

Cross Streets: KSP LONDON Enrt 16:10:00

Muni: Tel: LONDON Arriv

Caller: 606-878-6622

Units Responding: KSP LONDON

Description Clear

1103

This screen automatically pops up on Officer's screen when he is assigned to a call by the CAD.

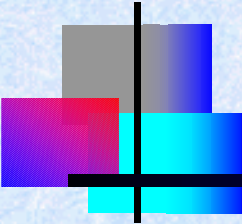
F1 F1-Incident # F2 F2-Records F3 F3-Set Status F4 F4-Report F5 F5-Narratives

Done P115P1103KSP/barryblair 11/07/2005 16:12



Mobile Connectivity - Costs Per Officer

MDC (CF-29)	\$4,900
MDC Mount	\$1,035
USB Cable	\$5
Charge Guard	\$75
Modem, antenna, wiring	\$2,035
PacketCluster license	\$495
Barcode scanner *	\$525
RS232 cable *	\$43
Printer HP450Cbi *	\$270
AC power adapter *	\$26
Office suite software	\$250
Software installation	\$100
Installation of modem etc	Locally priced
PacketCluster training	\$110
Per Officer Total	\$9,869



Mobile Connectivity - If Agency Has CAD

MDC/CAD interface license	\$250 per officer
CAD API for PacketCluster server	\$6,000 - \$15,000

Cost Savings with Statewide System

IP Network Controller (IPNC)	\$40,000
2 Antenna/Base station installations	\$70,000
PacketCluster Server Switch	\$70,000
Server seat licenses	\$120 per officer



Enrolling on Shared Message Switch

www.kwiec.ky.gov

Interoperability

KSP Mobile Message Switch Usage Policy

- Request Letter
- Signed User Agreement
- Agency Mobile Security Policy



Questions?

